

UNITED STATE COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

QM32/0209

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1020 WALNUT STREET SUITE 620
PHILADELPHIA PA 19107-5587

APPLICATION NO.		FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED	
	09/272,764	63/19/99	005	JAWORSKI, F	3737	02/09/01	
First Name Applicant	SHI,		35 U	SC 154(b) term ext. =	0 Day	E 0	

INVENTIONMETHOD AND SYSTEM FOR PRESSURE ESTIMATION USING SUBHARMONIC SIGNALS FROM MICROBUBBLE-BASED ULTRASOUND CONTRAST AGENTS

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
3 SHI01.NPO	01 600-4:	38.000 E	381 UTILIT	Y YES	\$620.00	05/09/01

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED.</u>

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above.

 If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

	Application No.	Applicant(s)	
	09/272.764	Shi Art Unit	
Notice of Allowa ity	Examiner		
	JAWORSKI	3737	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance and Issue of THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE initiative of the Office or upon petition by the applicant. See 37 Cm. 1. This communication is responsive to	ears on the cover sheet with the co (OR REMAINS) CLOSED in this application or other appropriate community of the community o	prrespondence add olication. If not inclu- inication will be mail ject to withdrawal fro the mail of the mail mational stage applicational stage application	ded led in due course, om issue at the ation from the quirements noted
FOR SUBMITTING NEW FORMAL DRAWINGS, OR A SUBSTI complying with the REQUIREMENT FOR THE DEPOSIT OF BI 6. Note the attached EXAMINER'S AMENDMENT or NOTICI the oath or declaration is deficient. A SUBSTITUTE OAT	TUTE OATH OR DECLARATION. TO COLOGICAL MATERIAL IS extended OF INFORMAL APPLICATION (PT	This three-month p ble under 37 CFR 1 O-152) which gives	eriod for I.136(a).
7. Applicant MUST submit NEW FORMAL DRAWINGS (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing of the including changes required by the attached Examiner	correction filed, which has be	en approved by the	
Identifying indicia such as the application number (see 3 should be filed as a separate paper with a transmittal lett			e drawings
8. Note the attached Examiner's comment regarding REQUIF	REMENT FOR THE DEPOSIT OF BI	OLOGICAL MATER	IAL.
Any reply to this letter should include, in the upper right hand corn applicant has received a Notice of Allowance and Issue Fee Due, ALLOWANCE should also be included.			
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No Examiner's Comment Regarding Requirement for Deposit of Biological Material	2☐ Notice of Informa 4☐ Interview Summa 6☐ Examiner's Amer 8☐ Examiner's States 9☐ Other	ry (PTO-413), Pape idment/Comment	r No
	(D _F	inag Traminer	

Application/Control Number: 09/272,764

Art Unit: 3737

1. The following is an examiner's statement of reasons for allowance: Chang et al and

Krishna et al (newly of record with the IDS filed January 10, 2001) is directed to measurement of

second harmonic doppler amplitude versus applied acoustic pressure or pressure of transmission.

None of the cited art, alone or in combination teaches or suggests a method of measuring

hydtostatic pressure by correlation to a calibrated correlation curve or contrast agent adapted for

measuring pressure wherein the microbubbles are adapted to change significantly in size under

application of pressure soas to optimize the sub or ultraharmonic response as an indication of

pressure.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication should be directed to Examiner Francis J.

Jaworski at telephone number (703) 308-3061.

FJJ:fii

2-8-01

Page 2